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# United States Department of Agriculture,

BUREAU OF ANIMAL INDUSTRY.

A. D. MELVIN, Chief of Bureau.

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# SERVICE ANNOUNCEMENTS.

WASHINGTON, D. C., MAY 15, 1907.

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This publication, as its name implies, is designed to disseminate information and instructions to persons in the service of the Bureau of Animal Industry. A supply will be sent to each official in charge of a station or branch of the service who should promptly distribute copies to all members of his force, whose duties are such as to render this desirable. A file should be kept at each station for reference.

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**Assistant Chief, A. M. FARRINGTON.**
**Chief Clerk, E. B. JONES.**

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**Assistant Chief, MORRIS WOODEN.**
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*Market milk investigations:* C. B. Lane, assistant chief, in charge; E. M. Santee, assistant dairyman; R. H. Shaw, chemist; A. E. Perkins and A. H. Douglass, assistant chemists; I. C. Weld, assistant dairyman; G. M. Whitaker and E. A. McDonald, inspectors.

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*Buildings and management investigations:* B. D. White, assistant dairyman, in charge; K. E. Parks, architect.

*Southern dairy investigations:* B. H. Rawl, assistant dairyman, in charge; D. Stuart, J. A. Conover, J. E. Dorman, S. E. Barnes, J. W. Ridgway, C. O. Moser, and T. E. Woodward, assistants.

*Renovated butter inspection:* M. W. Lang, chief inspector; Robert McAdam, Levi Wells, S. B. Willis, H. P. Olson, J. H. Barrett, and R. A. McBride, inspectors.

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*Chicago office*—No. 22 Fifth avenue, M. W. Lang in charge.

*Soft cheese laboratories:* Storrs Experiment Station, Storrs, Conn., Charles Thom in charge.

*Cheddar cheese laboratories:* Wisconsin Experiment Station, Madison, Wis., J. L. Sammis in charge.

*Milk secretion laboratories:* Missouri Experiment Station, Columbia, Mo., R. H. Shaw in charge.

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*Hog-cholera investigations:* Chief of Division in charge; B. M. Bolton and C. N. McBryde, bacteriologists; W. B. Niles, inspector in charge of field experiments.

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*Field investigations:* Adolph Eichhorn in charge.
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*Scientific assistant:* Frank L. Rector.
*Branch pathological laboratory at Chicago:* L. Enos Day in charge.

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V. A. Nörgaard, Honolulu, Hawaii.

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**Assistant Superintendent, W. E. COTTON.**

*Assistant:* George W. Brett.

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**Assistant Animal Husbandman, G. ARTHUR BELL.**

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*Supervision of pedigree-record association:* Roy A. Cave, herdbook assistant.
*Poultry investigations:* Rob R. Slocum, poultry assistant.
*Hog investigations:* L. R. Davies, scientific assistant.

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*Poultry breeding investigations:* Gilbert M. Gowell, expert in charge.
*Sheep breeding investigations:* George E. Morton, expert in charge.
*Turkey breeding investigations:* Leon J. Cole, expert in charge; W. F. Kirkpatrick assistant.

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Editor, JAMES M. PICKENS.

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## SERVICE CHANGES IN APRIL, 1907.

### Appointed.

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Anderson, William C., agent in scabies eradication, Albuquerque, N. Mex.
Andrews, Albert A., skilled laborer, Washington, D. C.
Andrews, Lucien, agent in tick eradication, Kansas City, Kans.
Armistead, Henry, agent in tick eradication, Lynchburg, Va.
Arnett, David N., agent in tick eradication, Kansas City, Kans.
Atwell, Frank M., meat inspector, Houston, Tex.
Bagby, Elmer E., meat inspector, Cleveland, Ohio.
Bailey, Wm. S., meat inspector, Washington, D. C.
Barnard, Wirt R., agent in scabies eradication, Albuquerque, N. Mex.
Barr, Edwin, E., veterinary inspector (temporary), Kansas City, Kans.
Beakley, W. A., agent in tick eradication, Nashville, Tenn.
Beck, Morris, agent in scabies eradication, Salt Lake City, Utah.
Becker, Charles J., agent in tick eradication, Nashville, Tenn.
Benson, Thomas H., agent in scabies eradication, Kansas City, Kans.
Berry, James C., agent in tick eradication, Kansas City, Kans.
Blake, C. F., agent in scabies eradication, Albuquerque, N. Mex.
Boatman, Clay, meat inspector, Cincinnati, Ohio.
Boehm, Joseph H., meat inspector, Cincinnati, Ohio.
Bowers, S. B., agent in tick eradication, Nashville, Tenn.
Brown, Levi F., veterinary inspector (temporary), Chicago, Ill.
Bruce, John G., meat inspector, New York, N. Y.
Bullington, W. H., agent in tick eradication, Nashville, Tenn.
Burkhalter, J. D., agent in tick eradication, Nashville, Tenn.
Burkholder, C. E., agent in scabies eradication, Kansas City, Kans.
Burnett, P. H., agent in scabies eradication, Denver, Colo.
Burson, William M., veterinary inspector (temporary), Cincinnati, Ohio.
Butler, J. S., veterinary inspector (temporary), Lynchburg, Va.
Cain, W. S., agent in tick eradication, Nashville, Tenn.
Callanan, Bernard G., tagger, Hutchinson, Kans.
Campbell, Archie, meat inspector, Jersey City, N. J.
Cantwell, John H., agent in tick eradication, Kansas City, Kans.
Carey, Harry R., veterinary inspector (temporary), National Stock Yards, Ill.
Carpenter, George C., agent in tick eradication, Kansas City, Kans.
Cash, John, agent in tick eradication, Kansas City, Kans.
Cervantes, Augustine A., meat inspector, San Francisco, Cal.
Clare, Hilrey D., agent in tick eradication, Kansas City, Kans.
Clarke, W. G., agent in tick eradication, Lynchburg, Va.
Clay, Leslie G., agent in scabies eradication, Salt Lake City, Utah.
Cole, Edward J. A., clerk (stenographer and typewriter), New York, N. Y.
Collins, Alva G., agent in scabies eradication, Albuquerque, N. Mex.
Collins, Patrick, meat inspector, Detroit, Mich.
Corcoran, Patrick J., meat inspector, South St. Joseph, Mo.

Cowan, Clarence W., tagger, Chicago, Ill.
Crockett, James L., agent in tick eradication, Kansas City, Kans.
Curry, Fay, tagger, Chicago, Ill.
Curtice, Cooper, expert in tick eradication, Washington, D. C.
Curtis, Charles A., agent in scabies eradication, Albuquerque, N. Mex.
Davidson, R. J., expert in tick eradication.
Davidson, William A., veterinary inspector (temporary), Kansas City, Kans.
Davis, Herbert F., agent in tick eradication, Nashville, Tenn.
Davis, J. H., agent in tick eradication, Nashville, Tenn.
Deal, Fred W., tagger, Chicago, Ill.
De Hart, H. L., agent in tick eradication, Lynchburg, Va.
Dischner, Henry, meat inspector, Hamilton, Ohio.
Dishedow, Simon, laborer.
Doherty, Patrick H., meat inspector, Brooklyn, N. Y.
Doody, William E., meat inspector, Bloomington, Ill.
Duffy, R. F., agent in scabies eradication, Denver, Colo.
Dwyer, Frank H., meat inspector, Pittsburg, Pa.
Dye, William C., agent in scabies eradication, Albuquerque, N. Mex.
Eddingfield, A. A., agent in scabies eradication, Denver, Colo.
Ellis, C. Roland, assistant in scabies eradication, Albuquerque, N. Mex.
Ellis, Walter J., agent in scabies eradication, Denver, Colo.
Emonts, Joseph, agent in scabies eradication, Albuquerque, N. Mex.
Enochs, Nathan, agent in tick eradication, Nashville, Tenn.
Ettling, Christian, agent in scabies eradication, Albuquerque, N. Mex.
Evans, David, agent in tick eradication, Nashville, Tenn.
Fallon, John, meat inspector, Chicago, Ill.
Fauks, Carl H., veterinary inspector (temporary), South St. Paul, Minn.
Fein, John H., meat inspector, Cincinnati, Ohio.
Ferneyhough, Robert E., veterinary inspector (temporary), Louisville, Ky.
Finley, George M., agent in tick eradication, Lynchburg, Va.
Finnegan, P. J., meat inspector, New York, N. Y.
Flory, Art, meat inspector, Macon, Ga.
Floyd, J. N., agent in tick eradication, Nashville, Tenn.
Frazier, F. A., agent in tick eradication, Nashville, Tenn.
Fry, Charles P., agent in tick eradication, Kansas City, Kans.
Fry, John L., agent in tick eradication, Kansas City, Kans.
Gallagher, Frank A., agent in tick eradication, Kansas City, Kans.
Gaston, John T., veterinary inspector (temporary), South St. Joseph, Mo.
Gilbert, Louis C., agent in scabies eradication, Denver, Colo.
Gilmore, Harry B., meat inspector, Chicago, Ill.
Glick, S. H., agent in tick eradication, Lynchburg, Va.
Gomel, Charles, agent in scabies eradication, Albuquerque, N. Mex.
Good, Hampton H., agent in tick eradication, Nashville, Tenn.
Gowe, Clarence B., meat inspector, Brooklyn, N. Y.
Graham, Joseph, agent in tick eradication, Lynchburg, Va.
Grapp, G. H., veterinary inspector (temporary), Chicago, Ill.
Greeder, Herman, veterinary inspector (temporary), Cincinnati, Ohio.
Greer, H. C., jr., agent in tick eradication, Nashville, Tenn.
Grimes, Charles A., meat inspector, New York, N. Y.
Gunn, John H., agent in tick eradication, Nashville, Tenn.
Hampton, Willard, agent in scabies eradication, Albuquerque, N. Mex.
Harbison, G. W., agent in tick eradication, Nashville, Tenn.
Harlan, Willis, tagger, Cleveland, Ohio.
Haston, David L., agent in tick eradication, Nashville, Tenn.

Hattery, Morton, veterinary inspector (temporary), Milwaukee, Wis.
Heiberger, Lorenzo F., meat inspector, Brooklyn, N. Y.
Hines, Ernest, agent in tick eradication, Nashville, Tenn.
Holbrook, Justin B., agent in scabies eradication, Kansas City, Kans.
Holloway, J. H., agent in tick eradication, Nashville, Tenn.
Hoopman, Ludwig, meat inspector, Cleveland, Ohio.
Huebschmann, John, veterinary inspector (temporary), Wheeling, W. Va.
Hulbush, Charles, agent in scabies eradication, Denver, Colo.
Hurley, Andrew J., tagger, National Stock Yards, Ill.
Huth, Otto J., veterinary inspector (temporary), Chicago, Ill.
Hyland, William, meat inspector, Ogden, Utah.
Jacobs, J. J., tagger, Philadelphia, Pa.
Jansman, Edward B., veterinary inspector (temporary), Cincinnati, Ohio.
Jarvis, Daniel A., agent in tick eradication, Nashville, Tenn.
Jarvis, G. W., agent in tick eradication, Nashville, Tenn.
Jones, Robert W., veterinary inspector (temporary), Kansas City, Kans.
Jones, Thomas B., veterinary inspector (temporary), Fort Worth, Tex.
Jung, Otto E., agent in scabies eradication, Albuquerque, N. Mex.
Justin, Miner M., agent in scabies eradication, Albuquerque, N. Mex.
Keene, George W., unskilled laborer, Bethesda, Md.
Keitt, Thomas E., assistant chemist, Washington, D. C.
Kinsey, O., jr., agent in scabies eradication, Albuquerque, N. Mex.
Kieffer, P. H., expert in dairying, Washington, D. C.
Knowles, Virgil W., veterinary inspector (temporary), National Stock Yards, Ill.
Korb, Walter A., agent in scabies eradication, Denver, Colo.
Kramer, Welker F., agent in scabies eradication, Albuquerque, N. Mex.
Kruse, Frederick A., veterinary inspector (temporary), Chicago, Ill.
Lackey, Sidney, agent in scabies eradication, Kansas City, Kans.
Lamborn, George E., agent in scabies eradication, Salt Lake City, Utah.
La Rue, Edgar N., veterinary inspector (temporary), St. Louis, Mo.
Lash, Elmer, veterinary inspector (temporary), South Omaha, Nebr.
Lauman, Fred J., veterinary inspector (temporary), Kansas City, Kans.
Lawson, William, agent in tick eradication, Lynchburg, Va.
Lee, Fred M., laborer (temporary), Middlebury, Vt.
Lee, John H., meat inspector, Spokane, Wash.
Lee, Walker M., agent in scabies eradication, Albuquerque, N. Mex.
Lee, Walter T., laborer (temporary), Middlebury, Vt.
Leeper, John C., agent in scabies eradication, Denver, Colo.
Lemery, Albro A., agent in scabies eradication, Albuquerque, N. Mex.
Lentz, G. W., agent in tick eradication, Nashville, Tenn.
Lowrey, Edward H., agent in tick eradication, Nashville, Tenn.
Lull, E. E., veterinary inspector (temporary), Lynchburg, Va.
McArmick, Charles E., agent in tick eradication, Kansas City, Kans.
McCampbell, C. W., agent in scabies eradication, Albuquerque, N. Mex.
McCosh, Samuel, meat inspector, New York, N. Y.
McClelland, John D., agent in tick eradication, Kansas City, Kans.
McFall, Jonathan, agent in scabies eradication, Kansas City, Kans.
McKee, Hugh K., meat inspector, Des Moines, Iowa.
McLelland, William W., agent in tick eradication, Kansas City, Kans.
McNamara, John J., meat inspector, Alton, Ill.
Mather, Chalmer A., agent in scabies eradication, Albuquerque, N. Mex.
Mathews, Virgil A., agent in tick eradication, Kansas City, Kans.
Meaders, Frank M., agent in tick eradication, Atlanta, Ga.
Miller, T. Irving, veterinary inspector (temporary), Chicago, Ill.

Mitchell, Frank P., agent in tick eradication, Nashville, Tenn.
Mollan, Paul A., veterinary inspector (temporary), Chicago, Ill.
Moore, David, meat inspector, Houston, Tex.
Morgan, H. A., expert in tick eradication, Knoxville, Tenn.
Morris, David Karl, agent in scabies eradication, Albuquerque, N. Mex.
Nance, Joseph E., veterinary inspector (temporary), Chicago, Ill.
Naylor, Ralph E., veterinary inspector (temporary), Denver, Colo.
Nelson, Swen, agent in scabies eradication, Salt Lake City, Utah.
Ney, William O., veterinary inspector (temporary), Kansas City, Kans.
Niven, Charles F., agent in tick eradication, Lynchburg, Va.
Niven, L. A., agent in tick eradication, Lynchburg, Va.
Norris, Edward T., tagger, New York, N. Y.
Noyes, Ralph E., veterinary inspector (temporary), Nashville, Tenn.
Oglesby, W. B., agent in tick eradication, Lynchburg, Va.
Osborn, Charles F., clerk and typewriter, Portland. Me.
Pack. Bennette, agent in tick eradication, Nashville, Tenn.
Pearce, Bart, agent in tick eradication. Kansas City, Kans.
Pearson, Albert A., veterinary inspector (temporary), Chicago, Ill.
Peck, Cassius, expert supervisor of Battell Farm, Middlebury, Vt.
Pennington, James F., agent in tick eradication, Nashville, Tenn.
Perry, James, agent in scabies eradication, Albuquerque, N. Mex.
Persse, John C., agent in tick eradication, Kansas City, Kans.
Petty, Fred L., agent in scabies eradication, Albuquerque, N. Mex.
Phillips, Cecelia D., clerk, stenographer, and typewriter (temporary), Washington, D. C.
Phillips, Charles S., meat inspector, Chicago, Ill.
Phillips, Robert, agent in tick eradication, Nashville, Tenn.
Philpott, L. B., veterinary inspector (temporary), Salt Lake City, Utah.
Pinkham, Charles F., agent in scabies eradication, Albuquerque, N. Mex.
Reid, Joseph C., veterinary inspector (temporary), South Omaha, Nebr.
Ring, Stanton, agent in scabies eradication, Pendleton, Oreg.
Roberts, G. A., expert in tick eradication, Lynchburg. Va.
Robinson, Charles W., agent in tick eradication, Kansas City, Kans.
Robinson, Mark, meat inspector, Philadelphia, Pa.
Roscher, Ernest, meat inspector, Brooklyn, N. Y.
Rosenfelt, Allen, agent in scabies eradication, Albuquerque, N. Mex.
Rubel, Chester W., agent in tick eradication, Los Angeles, Cal.
Ruth, Erwin C., veterinary inspector (temporary), South St. Joseph, Mo.
Ryan, Joseph, tagger, Newark, N. J.
Safley, Jesse C., agent in tick eradication, Nashville, Tenn.
Salmon, John P., meat inspector, Cincinnati, Ohio.
Saunders, John B., agent in tick eradication, Lynchburg, Va.
Sayers, Clinton H., meat inspector, Kansas City, Kans.
Shafer, John C., meat inspector, Washington, D. C.
Shaffer, Frederick W., veterinary inspector (temporary), Chicago, Ill.
Shipley, H. R., agent in tick eradication, Nashville, Tenn.
Shraiberg, S. G., agent in scabies eradication, Pendleton, Oreg.
Silverwood, Herbert, veterinary inspector (temporary), Pendleton, Oreg.
Sims, W. A., agent in tick eradication, Atlanta, Ga.
Slicer, Heber M., clerk and typewriter, Lynchburg, Va.
Smallmon, D. M., agent in tick eradication, Nashville, Tenn.
Smarzo, W. S., expert in dairying, Washington, D. C.
Smith, Emory H., tagger, Cincinnati, Ohio.
Smith, L. C., agent in scabies eradication, Albuquerque, N. Mex.

Sneve, Severin C. M., tagger, Seattle, Wash.
Snowden, John M., meat inspector, South Omaha, Nebr.
Snyder, Eugene J., jr., veterinary inspector, Kansas City, Kans.
Sparkman, I. L., agent in tick eradication, Nashville, Tenn.
Spencer, William T., veterinary inspector (temporary), Denver, Colo.
Stever, Arthur C., veterinary inspector (temporary), Chicago, Ill.
Storie, I. R., agent in tick eradication, Nashville, Tenn.
Sullivan, Dan C., agent in scabies eradication, Albuquerque, N. Mex.
Sullivan, Walter A., veterinary inspector (temporary), National Stock Yards, Ill.
Swain, J. L., agent in tick eradication, Nashville, Tenn.
Sweeney, Peter M., meat inspector, Toledo, Ohio.
Talbot, J. G., agent in tick eradication, Nashville, Tenn.
Thompson, Lee W., meat inspector, Brooklyn, N. Y.
Thornton, E. L., veterinary inspector (temporary), National Stock Yards, Ill.
Tims, John, jr., tagger, St. Louis, Mo.
Traver, Dolph, meat inspector, Sioux City, Iowa.
Tremper, Henry J., agent in scabies eradication, Albuquerque, N. Mex.
Vance, Arthur, agent in scabies eradication, Salt Lake City, Utah.
Veenstra, John Y., veterinary inspector (temporary), Chicago, Ill.
Venn, James L., tagger, South Omaha, Nebr.
Walsh, Patrick, meat inspector, Brooklyn, N. Y.
Walsh, Thomas E., meat inspector, New York, N. Y.
Waters, John T., agent in scabies eradication, Atlanta, Ga.
Waters, Joseph H., clerk, stenographer, and typewriter (temporary), Washington, D. C.
Weathers, Elmer L., tagger, Cincinnati, Ohio.
Weaver, John H., tagger, National Stock Yards, Ill.
Weston, James, meat inspector, San Francisco, Cal.
Whitney, James M., meat inspector, New York, N. Y.
Whitson, M. E., agent in tick eradication, Nashville, Tenn.
Wilkes, R. W., agent in scabies eradication, Albuquerque, N. Mex.
Wilkinson, James O., tagger, Chicago, Ill.
Winfree, P. B., agent in tick eradication, Lynchburg, Va.
Winfree, R. N., agent in tick eradication, Lynchburg, Va.
Worswick, R. C., agent in scabies eradication, Albuquerque, N. Mex.
Wright, George W., meat inspector, Dayton, Ohio.
Young, E. J., agent in scabies eradication, Salt Lake City, Utah.

**Reinstated.**

Burke, Henry, tagger, National Stock Yards, Ill.
Culbert, Robert W., tagger, Cincinnati, Ohio.
Dean, Arlton K., veterinary inspector, Cleveland, Ohio.
O'Neill, Frank, stock examiner, National Stock Yards, Ill.
Paden, Charles W., tagger, National Stock Yards, Ill.
Sarsfield, John W., meat inspector, Chicago, Ill.
Shrower, John D., veterinary inspector, Kansas City, Kans.

**Promoted.**

Abel, Louis, veterinary inspector in charge, Brooklyn, N. Y.
Ainsworth, Frederick W., veterinary inspector in charge, Pittsburg, Pa.
Ayer, Don C., veterinary inspector in charge, South Omaha, Nebr.
Baker, L. R., veterinary inspector in charge, Kansas City, Kans.
Baumann, Ernest H., veterinary inspector, Atlanta, Ga.

Beechy, Levi P., veterinary inspector in charge, Columbus, Ohio.
Benjamin, Frank E., meat inspector in charge, Binghamton, N. Y.
Bennett, Earnest A., clerk, Washington, D. C.
Bennett, S. E., veterinary inspector in charge, Chicago, Ill.
Bertram, E. L., veterinary inspector in charge, Cincinnati, Ohio.
Biggs, Anson W., stock examiner, Kansas City, Kans.
Blackwell, John E., veterinary inspector in charge, Hutchinson, Kans.
Blume, Rufus B., veterinary inspector, Washington, D. C.
Bond, George A., veterinary inspector, National Stock Yards, Ill.
Brougham, J. J., veterinary inspector in charge, St. Louis, Mo.
Brown, Henry E., veterinary inspector in charge, Brightwood, Mass.
Bullock, Alfred D., veterinary inspector in charge, Milwaukee, Wis.
Bundy, Edward A., veterinary inspector in charge, Reno, Nev.
Burgett, John L., veterinary inspector, Kansas City, Kans.
Burke, Henry, veterinary inspector, National Stock Yards, Ill.
Burns, Edward J., meat inspector in charge, Canajoharie, N. Y.
Burt, S. W., veterinary inspector in charge, Toledo, Ohio.
Busman, Herman, veterinary inspector in charge, Denver, Colo.
Butler, George W., veterinary inspector in charge, Louisville, Ky.
Callahan, John J., meat inspector in charge, Manchester, N. H.
Campbell, Pearl W., meat inspector in charge, Rochester, N. Y.
Canfield, Charles H., veterinary inspector, Newport, Vt.
Carter, Clifton, tagger, Kansas City, Kans.
Casper, Adolph M., veterinary inspector in charge, Port Huron, Mich.
Caudy, William M., patrol stock examiner, Portland, Oreg.
Clancy, Joseph B., veterinary inspector in charge, National Stock Yards, Ill.
Clarke, Lowell, veterinary inspector in charge, Denver, Colo.
Clawson, Clarence A., veterinary inspector, Kansas City, Kans.
Cloud, Joel E., veterinary inspector in charge, La Fayette, Ind.
Corbett, Charles M., veterinary inspector, Kansas City, Kans.
Crewe, Wilton F., veterinary inspector, Bismarck, N. Dak.
Crow, Herbert M., meat inspector, Sherman, Tex.
Darling, Robert, veterinary inspector in charge, San Diego, Cal.
Day, Charles M., veterinary inspector in charge, Alton, Ill.
Dean, Albert, live-stock agent in charge, Kansas City, Kans.
Deming, Charles W., veterinary inspector in charge, Spokane, Wash.
De Wolf, F. L., veterinary inspector in charge, Topeka, Kans.
Ditewig, George, veterinary inspector, traveling.
Dowd, Edward P., veterinary inspector in charge, Worcester, Mass.
Ellenberger, W. P., veterinary inspector in charge, Nashville, Tenn.
Faulder, Ernest T., stock examiner, Kansas City, Kans.
Faunce, Archibald L., veterinary inspector in charge, Winona, Minn.
Faville, George C., veterinary inspector in charge, Norfolk and Newport News, Va.
Fegan, Hugh J., clerk, Washington, D. C.
Field, James E., clerk, Washington, D. C.
Garbi, Louis, sr., meat inspector in charge, Hudson, N. Y.
Gates, Otis H., clerk, stenographer, and typewriter, Washington, D. C.
George, Harrison M., veterinary inspector in charge, South St. Joseph, Mo.
Gibbs, Henry C., clerk, Washington, D. C.
Gibson, James, meat inspector in charge, Savannah, Ga.
Gjertson, Albert G., stock examiner, National Stock Yards, Ill.
Green, Louis K., veterinary inspector in charge, Detroit, Mich.
Harrington, Daniel W., veterinary inspector, Los Angeles, Cal.
Healy, Frank A., stock examiner, Chicago, Ill.

Henderson, Edwin P., veterinary inspector, Lynchburg, Va.
Henry, Paul C., stock examiner, Chicago, Ill.
Herrick, Henry B., meat inspector in charge, Fall River, Mass.
Hess, Orlando B., veterinary inspector in charge, Seattle, Wash.
Hirleman, Arden L., veterinary inspector in charge, Wheeling, W. Va.
Hopkins, Percy R., veterinary inspector, Dallas, Tex.
Huelsen, Julius, veterinary inspector in charge, Jersey City, N. J.
Hughes, James F., meat inspector in charge, Syracuse, N. Y.
Hutchinson, Charles E., stock examiner, Boston, Mass.
Imes, Marion, veterinary inspector in charge, Albuquerque, N. Mex.
Irons, George T., veterinary inspector in charge, Nebraska City, Nebr.
Jackson, Freeman H., meat inspector in charge, Auburn, Mass.
Jacobs, Harry C., clerk, St. Louis, Mo.
Jennings, William E., meat inspector in charge, Hartford, Conn.
Johnson, George A., veterinary inspector in charge, Sioux City, Iowa.
Johnson, Levi E., veterinary inspector, Kansas City, Kans.
Joss, Edward C., veterinary inspector in charge, Portland, Oreg.
Kelly, James S., veterinary inspector in charge, Quincy, Ill.
Ketchem, Frank D., veterinary inspector in charge, South St. Paul, Minn.
Kierman, John A., veterinary inspector in charge, Lynchburg, Va.
Long, Albert, veterinary inspector in charge, New Haven, Conn.
Lynch, John E., veterinary inspector (temporary), Indianapolis, Ind.
McBirney, John, veterinary inspector, Chicago, Ill.
McCarty, William E., meat inspector, Greenville, Tex.
McGinty, George B., clerk, stenographer, and typewriter, Washington, D. C.
MacKellar, William M., veterinary inspector in charge, Los Angeles, Cal.
McKeown, Thomas H., veterinary inspector in charge, Washington, D. C.
Mahoney, Arthur A., foreman of taggers, St. Louis, Mo.
Martins, Alfred F., veterinary inspector in charge, Newark, N. J.
Mattatall, Ira C., veterinary inspector, traveling.
Mauldin, Columbus E., veterinary inspector in charge, New Orleans, La.
Meade, Albert M., stock examiner, Kansas City, Kans.
Metsker, Louis, veterinary inspector in charge, Evansville, Ind.
Miller, Joshua, veterinary inspector in charge, Ottumwa, Iowa.
Mink, William, meat inspector, Washington, D. C.
Montague, John W., veterinary inspector in charge, Wilmington, Del.
Moser, George C., live-stock agent, traveling.
Murphy, M. J., veterinary inspector, Jersey City, N. J.
Neil, Wesley N., veterinary inspector in charge, Wichita, Kans.
Parkerson, Charles A., jr., veterinary inspector, New York, N. Y.
Payne, Albert J., veterinary inspector in charge, Atlanta, Ga.
Pew, Irving W., clerk, Washington, D. C.
Pistor, Adolph J., veterinary inspector, traveling.
Pope, George W., veterinary inspector, Athenia, N. J.
Puette, Grace, clerk, Washington, D. C.
Raffensperger, Hayes B., tagger, Chicago, Ill.
Ramsdell, Harry P., meat inspector, Boston, Mass.
Rathman, Fred J., meat inspector in charge, Austin, Tex.
Repp, George E., veterinary inspector in charge, Dayton, Ohio.
Riemer, Julius F., meat inspector in charge, Bridgeport, Conn.
Rishel, Albert E., veterinary inspector in charge, Los Angeles, Cal.
Rodibaugh, Alfred B., veterinary inspector, Indianapolis, Ind.
Rosenberger, Guy W., veterinary inspector, Los Angeles, Cal.
Ryder, James F., veterinary inspector in charge, Boston, Mass.

Sarsfield, John W., stock examiner, Chicago, Ill.
Sartor, Scott, meat inspector in charge, Terre Haute, Ind.
Schaffter, Edward P., veterinary inspector in charge, Cleveland, Ohio.
Schaufler, Charles A., veterinary inspector in charge, Philadelphia, Pa.
Schumacher, Wilhelm, verterinary inspector, Denver, Colo.
Scott, Thomas W., veterinary inspector in charge, Waterloo, Iowa.
Selby, Stephen A., veterinary inspector in charge, Bridgeport, Conn.
Sherwood, Everett C., clerk, stenographer, and typewriter, Kansas City, Kans.
Shipley, Trajan A., veterinary inspector in charge, Cedar Rapids, Iowa.
Smith, John M., veterinary inspector, Chicago, Ill.
Smith, Samuel T., stock examiner, Chicago, Ill.
Smith, William M., veterinary inspector, Cincinnati, Ohio.
Smith, Walter A., veterinary inspector (temporary), Kansas City, Kans.
Sorensen, Niels C., veterinary inspector in charge, Indianapolis, Ind.
Spencer, Clyde G., stock examiner, Kansas City, Kans.
Swan, John A., patrol tagger, South Omaha, Nebr.
Talbert, Joseph F., veterinary inspector, South St. Joseph, Mo.
Tierney, Daniel D., stock examiner, Chicago, Ill.
Tindall, William S., meat inspector in charge, Memphis, Tenn.
Townsend, Norris L., veterinary inspector in charge, Paterson, N. J.
Travers, Frederick P., stock examiner, Kansas City, Kans.
Treacy, Robert H., veterinary inspector in charge, North Dakota.
Turner, Albert J., patrol stock examiner, Indianapolis, Ind.
Wallace, Archibald H., veterinary inspector in charge, Fort Worth, Tex.
Walters, Mildred E., clerk, Washington, D. C.
Weihe, Walter E., veterinary inspector, Nashville, Tenn.
Wende, Bernhard P., veterinary inspector in charge, Buffalo, N. Y.
Wood, George W., stock examiner, Chicago, Ill.
Woolfolk, George H., veterinary inspector in charge, Chester, Pa.
Woollen, D. Murton, veterinary inspector in charge, Ogden, Utah.
Zimmerman, Herman E., tagger, Kansas City, Kans.

### Resigned.

Brown, Walter L., tagger, Chicago, Ill.
Campbell, Colin, special field stock examining agent, Denver, Colo.
Carroll, Christopher, meat inspector, Cincinnati, Ohio.
Cook, John F., meat inspector, Chicago, Ill.
Detweiler, Horace S., meat inspector, Washington, D. C.
Dishong, George M., tagger, Pottsville, Pa.
Feicker, Paul, meat inspector, Cincinnati, Ohio.
Fossum, Andrew, clerk, Washington, D. C.
Fretz, Harry L., veterinary inspector, Seattle, Wash.
Gent, Alfred G., meat inspector, Fort Worth, Tex.
Greenough, Arthur F., meat inspector, Washington, D. C.
Halderman, William J., tagger, Philadelphia, Pa.
Harrington, D. W., veterinary inspector, Los Angeles, Cal.
Jacobs, J. Otis, veterinary inspector, Salt Lake City, Utah.
Kann, Joseph, meat inspector, Brooklyn, N. Y.
Koorz, Albert W., meat inspector, New York, N. Y.
Kruse, Frederick A., tagger, Cincinnati, Ohio.
Ringle, Albert M., patrol tagger, La Fayette, Ind.
Sheldon, Frank H., meat inspector, Pottsville, Pa.
Snyder, Alva, meat inspector, Dayton, Ohio.
Sutherland, George, stock examiner, National Stock Yards, Ill.

Turner, Joseph M., stock examiner, Louisville, Ky.
Voight, August, laborer, Bethesda, Md.
Waters, Joseph H., clerk, stenographer, and typewriter (temporary), Washington, D. C.
Winter, George, meat inspector, Alton, Ill.

**Transferred within the Bureau Service.**

Adler, Samuel P., meat inspector, Cleveland, Ohio, to Pittsburg, Pa.
Andress, William R., veterinary inspector, Chester, Pa., to Nashville, Tenn.
Bailey, Isaiah, meat inspector, Tacoma, Wash., to Seattle, Wash.
Beatty, William A., meat inspector, Houston, Tex., to South St. Joseph, Mo.
Berdan, Augustus, veterinary inspector, Jersey City, N. J., to Lynchburg, Va.
Brock, Ralph O., veterinary inspector in charge, Boston, Mass., to Burlington, Vt.
Brown, Thomas P., meat inspector, Kansas City, Kans., to South St. Joseph, Mo.
Browning, George W., veterinary inspector, Kansas City, Kans., to Nashville, Tenn.
Bundrant, William C., tagger, National Stock Yards, Ill., to Kansas City, Kans.
Burbank, Thomas A., meat inspector, National Stock Yards, Ill., to South St. Joseph, Mo.
Cannon, Earl C., stock examiner, from meat inspection to field work, Kansas City, Kans.
Cater, Fred C., veterinary inspector, National Stock Yards, Ill., to Kansas City, Kans.
Clements, Charles E., veterinary inspector, Chicago, Ill., to Kansas City, Kans.
Cole, Charles C., meat inspector, Sioux City, Iowa, to South St. Joseph, Mo.
Crossman, Edgar A., veterinary inspector, Burlington, Vt., to Boston, Mass.
Crowley, John T., meat inspector, New York, N. Y., to Providence, R. I.
Cunningham, Bernard J., meat inspector, Cincinnati, Ohio, to Alton, Ill.
Curran, Thomas, meat inspector, National Stock Yards, Ill., to Kansas City, Kans.
Dinkelburg, Philip J., meat inspector, Trenton, N. J., to Pottsville, Pa.
Domnosky, Herman G., meat inspector, Chicago, Ill., to Baltimore, Md.
Echols, Byron C., veterinary inspector, Indianapolis, Ind., to Los Angeles, Cal.
Ellis, Walter J., agent scabies eradication, South Omaha, Nebr., to Denver, Colo.
Ervin, Clarence E., tagger, Cleveland, Ohio, to Chicago, Ill.
Fisk, A. G., veterinary inspector, San Francisco, Cal., to Los Angeles, Cal.
Flaherty, George F., veterinary inspector, Wheeling, W. Va., to Nashville, Tenn.
Fotheringham, William, veterinary inspector, Saegerstown, Pa., to Eau Claire, Wis. (in charge).
Gallagher, Hugh J., meat inspector, Chicago, Ill., to Philadelphia, Pa.
Gallagher, James E., meat inspector, Milwaukee, Wis., to Chicago, Ill.
Graham, Harry A., meat inspector, South Omaha, Nebr., to South St. Joseph, Mo.
Grayson, Oscar H., tagger, Jersey City, N. J., to Fort Worth, Tex.
Haas, Charles C., meat inspector, Philadelphia, Pa., to Baltimore, Md.
Harrison, Robert H., veterinary inspector, Eau Claire, Wis., to South St. Paul, Minn.
Helvey, Orlando W., patrol tagger, South Omaha, Nebr., to South St. Joseph, Mo.
Henderson, Edwin P., veterinary inspector, Burlington, Vt., to Lynchburg, Va.
Hills, John D., veterinary inspector, Baltimore, Md., to Lynchburg, Va.
Hoar, John M., meat inspector, San Francisco, Cal., to Sacramento, Cal.
Jackson, Bert C., meat inspector, South St. Joseph, Mo., to National Stock Yards, Ill.
Jacobs, Harry C., clerk, St. Louis, Mo., to Washington, D. C.
Jones, Fred B., tagger, Columbus, Ohio, to Louisville, Ky.
Joyce, Thomas, meat inspector, San Francisco, Cal., to Los Angeles, Cal.
Kern, John, meat inspector, New York, N. Y., to Auburn, Me.
Kitshofer, Joseph H., clerk and typewriter, Pendleton, Oreg., to San Francisco, Cal.
Knodel, William F., meat inspector, Richmond, Va., to Syracuse, N. Y.

Ladson, Thomas A., veterinary inspector, National Stock Yards, Ill., to Baltimore, Md.

Lewinson, Louis, meat inspector, Richmond, Va., to South St. Joseph, Mo.

Mahon, James, veterinary inspector, St. Louis, Mo., to Philadelphia, Pa.

Malone, Edward J., meat inspector. Chicago, Ill., to Cincinnati, Ohio.

Mason, William B., veterinary inspector, Portland, Oreg., to Pendleton, Oreg.

Matteson, Seth A., meat inspector. Kansas City, Kans., to National Stock Yards, Ill.

Mead, Rolla N., veterinary inspector, Fort Atkinson, Kans., to Milwaukee, Wis.

Morgan, Porter, stock examiner from field work to meat inspection work, Kansas City, Kans.

Moiser, Charles B., meat inspector. Syracuse, N. Y., to Burlington, Vt.

Murray, Clarence F., meat inspector, St. Louis, Mo., to Chicago, Ill.

Mytinger, Alburtus E., meat inspector, Chicago, Ill., to St. Louis, Mo.

Newberry, George W., clerk and typewriter, San Francisco, Cal., to Pendleton, Oreg.

O'Connell, Michael J., meat inspector, Buffalo, N. Y., to Boston, Mass.

O'Hern, James F., meat inspector, South St. Joseph, Mo., to South Omaha, Nebr.

Opal, John A., meat inspector, Des Moines, Iowa, to South St. Joseph, Mo.

Painter, George D., veterinary inspector, South St. Joseph, Mo., to Marshalltown, Iowa (in charge).

Parker, William J., meat inspector. South Omaha, Nebr., to Chicago, Ill.

Parsons, Sidney J., meat inspector. Pittsburg, Pa., to Chicago, Ill.

Pfaffman, George A., veterinary inspector, Milwaukee, Wis., to Nashville, Tenn.

Phetteplace, Frederick R., tagger. Cleveland, Ohio, to Philadelphia, Pa.

Pilchard, Mack R., stock examiner, Cleveland, Ohio, to Columbus, Ohio.

Pollard, William S., veterinary inspector, National Stock Yards, Ill., to Baltimore, Md.

Price, John O. F., veterinary inspector. Marshalltown, Iowa, to Nashville, Tenn.

Purviance, Austin E., meat inspector, Houston, Tex., to South St. Joseph, Mo.

Rodibaugh, Samuel J., veterinary inspector, from field work to meat inspection, Los Angeles, Cal.

Sachse, Herman F., meat inspector, Cincinnati, Ohio, to Milwaukee, Wis.

Schuman, Charles, clerk, Washington. D. C., to Fort Worth, Tex.

Sine, John V., special stock examiner, Lancaster, Pa., to Chicago, Ill.

Somerville, Samuel, jr., veterinary inspector, from Chicago, Ill., to Buffalo, N. Y.

Spraul, Edwin, meat inspector. Richmond, Va., to St Louis, Mo.

Taber, Allen W., meat inspector. Burlington, Vt., to Newark, N. J.

Travers, Frederick P., stock examiner. Kansas City, Kans., to Sioux City, Iowa.

Waddle, Harry P., tagger, Cleveland. Ohio, to Philadelphia, Pa.

Waller, Harry M., veterinary inspector. New York, N.Y. (traveling in Great Britain).

Wetzel, Charles A., meat inspector, Alton, Ill., to Cincinnati, Ohio.

Wetzel, Raymond, W., tagger, Cleveland, Ohio, to Kansas City, Kans.

Whitaker, George M., dairy inspector, from field to Washington, D. C.

White, Timothy P., patrol stock examiner, Portland, Me., to Boston, Mass.

Williams, William E., tagger, Baltimore. Md., to Jersey City, N. J.

Wilson, Elbert H., meat inspector, Seattle, Wash., to Lewiston, Idaho.

Woolfolk, George H., veterinary inspector, Louisville, Ky., to Chester, Pa. (in charge).

**Separated.**

Alexander, Emma C., clerk, Washington. D. C.

Beckstead, Franklin H., laborer. Ogden, Utah.

McKay, William M., tagger, Chicago, Ill. (died).

Metzger, Michael, tagger, Chicago, Ill. (died).

Moore, Lawrence W., messenger, Washington, D. C.

Speechley, George, meat inspector, Spokane, Wash. (died).

Dismissed from the Service.

Clarke, Michael H., clerk, New York, N. Y.
Binz, Frank K., meat inspector, St. Louis, Mo.
Bowers, Benjamin F., meat inspector, Philadelphia, Pa.
Doane, William E., tagger, San Francisco, Cal.
Ellis, Samuel B., meat inspector, Jersey City, N. J.
Foster, James R., meat inspector, Fort Worth, Tex.
Gilgenberg, Anthony, meat inspector, St. Louis, Mo.
Harris, Scott H., meat inspector, St. Louis, Mo.
King, Roland T., veterinary inspector, Brooklyn, N. Y.
Lynch, Jeremiah, meat inspector, Brooklyn, N. Y.
McGurty, O. J., veterinary inspector, Indianapolis, Ind.
Oefelein, John L., meat inspector, St. Louis, Mo.
Schwab, Walter J., meat inspector, New York, N. Y.
Strobel, Ambrose, meat inspector, Cincinnati, Ohio.
Summerfeldt, George H., veterinary inspector, Buffalo, N. Y.
Thompson, Charles A., meat inspector, Cincinnati, Ohio.
Perkins, Lawrence, C., meat inspector, Macon, Ga.

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## NEW REGULATIONS GOVERNING THE INTERSTATE MOVEMENT OF LIVE STOCK.

Inspectors and other Bureau employees are urged to study carefully the entire new regulations and rules (B. A. I. Orders 143 to 146, inclusive) governing the interstate movement of live stock, effective April 15, 1907. Under these regulations a Bureau inspector will not attempt to control the movement of live stock within a State or Territory unless he is duly authorized by such State or Territory to do so. In other words, each State or Territory will hereafter have to do for itself what has heretofore been done by the Bureau in the way of preventing or regulating the movement of live stock within its own borders. In no instance shall an inspector take up State work until he has been so instructed by the Bureau inspector in charge.

Particular attention is directed to Regulation 21, under which Bureau inspectors may issue permits for the interstate shipment of cattle of clean herds of the area quarantined for scabies in cattle. Such shipments shall be made as "uninspected clean cattle" within ten days of the date of the permit, and shall be destined to market or slaughtering centers where inspection is maintained, or to points where facilities are available for dipping or spraying cattle under Bureau supervision. The issuance of these permits shall not depend upon a reinspection of the cattle, but the inspector should have definite knowledge that a herd is clean before furnishing a permit. The permits may be forwarded either by mail or by wire, as occasion demands, and should in effect be as follows: "John Jones is hereby permitted to ship as uninspected clean cattle three cars of cattle branded J. J. Y., from Brownsville, Tex., to Kansas City, Kans. Paul Jones, Inspector, Bureau of Animal Industry."

If upon arrival at destination any such shipment is found to contain scabby cattle the Bureau inspector should immediately notify the inspector in charge of the territory from which they were shipped, in order to prevent future shipments of diseased cattle.

The effect of this provision is intended to make it less difficult to market cattle of clean herds as such.

Cattle not visibly diseased, but which are of diseased herds, may be shipped interstate as "uninspected exposed cattle" from points in the quarantined area to points where separate pens are provided for the yarding of exposed cattle, and where facilities are available for either slaughtering, dipping, or spraying such animals under Bureau supervision.

## ERADICATION OF SCABIES IN SHEEP AND CATTLE.

A Bureau letter of March 1 was addressed to the inspectors in charge of the eradication of cattle and sheep scabies, requesting them to advise the State authorities in their divisions that it would be necessary for each State which desired the assistance of the Bureau in the control of diseases of live stock to make formal request for such cooperation. As a result of this action, requests for cooperation have been received from eleven of the States and Territories under Federal quarantine.

Oklahoma has requested Department cooperation, and in compliance with this request general dipping on account of cattle mange is being done in Beaver and Woodward counties.

The Territories of Arizona and New Mexico have also requested Department cooperation. A general dipping of all sheep in New Mexico will be conducted under Bureau supervision during the summer, as well as inspection and dipping of all sheep admitted to the National Forests in that Territory.

Such counties in Arizona as were found during the past winter to be infected with sheep scabies have been designated by the Territorial commission as infected districts, and all sheep are being dipped under either Federal or Territorial supervision and will not be admitted to National Forests in that Territory without a certificate of inspection and dipping from an inspector of the Bureau of Animal Industry.

Colorado and Wyoming have requested Department cooperation in the control and eradication of sheep scabies. In Wyoming a shearing-pen inspection of all sheep is being made by the Bureau and inspectors appointed by the State board of sheep commissioners. All infected or exposed sheep will be dipped under Bureau supervision. The Wyoming cattle sanitary board is likewise receiving Bureau cooperation in the inspection of cattle in the five counties now covered by Federal quarantine.

In Colorado an inspection of all sheep is being made, and, as in Wyoming, all infected and exposed sheep will be dipped under the supervision of Bureau employees. No sheep will be allowed to enter the National Forests in these States unless accompanied by certificates of Bureau inspection.

Upon requests from Nevada and Utah, Bureau cooperation is extended to cover the work of sheep scab eradication, which their respective State boards are vigorously prosecuting. In Utah, where very little infection exists, a general shearing-pen inspection is being made, and all infected or exposed sheep will be dipped under Bureau supervision. It is hoped that Utah may be released from quarantine at an early date.

In Nevada conditions are different on account of this being the first year that any activity has been evinced on the part of State authorities to eradicate sheep scab. A general inspection of all sheep in the State is being made, and in all localities where the disease is found to be prevalent a general dipping of sheep will be carried on with the hope that in another year this State will be in as good condition as the State of Utah is at present. Sheep entering the National Forests of these States will be under Government certification.

Inspections made by Bureau men in California during the past winter showed that a very large percentage of the sheep in that State were affected with scabies, but the State authorities are making no effort either to eradicate the disease themselves or to secure the cooperation of the Department in doing so. Very little work is being done in that State. However, all California sheep are admitted to the Diamond Mountain, Tahoe, Sierra, and Stanislaus National Forests in California only after being properly dipped and certified by Bureau inspectors. This action was imperative in view of the danger of California sheep reinfecting those of Nevada.

In Idaho, where active work has been in operation under Bureau supervision and direction for the past three years, and where only four bands of sheep are known to be scabby, it is desired to obtain further knowledge of the condition of the sheep. Accord-

ingly all sheep admitted to the National Forests will be inspected. These inspections will cover probably 90 per cent of the sheep in the State.

The State of Oregon having requested Department cooperation, active work is being commenced and all sheep in that State will be inspected, and those infected or exposed or in localities where infection exists will be dipped under the supervision of Bureau employees, and sheep will be permitted on the National Forests in that State only under Bureau certification.

In the State of Washington no active work is being done by the State authorities, and no cooperation has been requested of the Department. Bureau work will therefore be confined to the interstate movement of sheep and to the inspection and dipping of such Washington sheep as are admitted to the Wenaha National Forest, to which a large number of Oregon sheep are admitted.

Requests for Department cooperation have been received from the States of Montana, North Dakota, and South Dakota. A general inspection of all cattle and sheep is being made in portions of those States where disease is known to exist, and all infected and exposed animals will be treated under the supervision of Bureau or State employees, and in these States all cattle and sheep admitted for grazing to National Forests or Indian reservations will be inspected and certificates issued by Bureau inspectors if they are found free from disease or if they have been dipped under their supervision.

In the States of Nebraska, Kansas, and Texas, where there is no cooperative work being done in scabies eradication, the Bureau will confine its work to the inspection of cattle and sheep for interstate movement, as indicated in B. A. I. Order No. 143, effective April 15, 1907.

## TICK ERADICATION.

Following up the work commenced in 1906, the Bureau has resumed cooperative work with the authorities of various Southern States for the eradication of ticks which infest cattle and transmit disease. The assignments of inspectors in charge of the different sections are shown in the organization list.

The general plans which were in vogue during 1906 for the control and extermination of the cattle tick are again being pursued, together with certain new features.

Arrangements are being completed for spraying cattle in Virginia and North Carolina with an emulsion in the proportion of one part of Beaumont crude petroleum to four parts of water. The emulsion will be applied by portable spraying pumps operated by hand. The application of the emulsion will be repeated about every three weeks, and in this way it is expected that cattle and premises may be freed from ticks. An early report of these operations should be submitted to the Bureau by the inspector in charge.

Under an arrangement with the State authorities of Alabama, a cattle-dipping cage will be installed at Huntsville for the purpose of dipping cattle to rid them of ticks. Specifications for constructing the dipping cage are now being prepared. The inspector in charge of this project should confer with the State officials concerning the details and early completion of the dipping facilities at Huntsville and report thereon.

Experimental dippings with an arsenical solution are being conducted in Texas. Reports of such work already done in that State indicate that a solution of this kind is quite effectual in destroying ticks without much injury to the cattle. The inspector in charge should submit frequent detailed reports of the progress and results of these dippings.

During the intervals from April 22 to 27 and April 29 to May 4 meetings were held at Chattanooga, Tenn., and Richmond, Va., at which inspectors engaged in tick eradication were given instruction in the subjects of farm management, rotation of crops, soils, etc., in order to better prepare the inspectors to advise cattle owners as

to the necessary and approved procedure in destroying ticks by the starvation process. These meetings were addressed by persons selected by the State authorities interested. These schools of instruction, so far as can be judged at this early date, have been an unqualified success.

Inspectors in charge of tick eradication should give their early attention to Bureau circular letter No. 100 of April 30, 1907.

Circular 110, "Methods of Eradicating Cattle Ticks," by Dr. Louis A. Klein, veterinarian of the South Carolina Agricultural Experiment Station, will be issued within a few days, and copies will be supplied to employees engaged in tick eradication for distribution in connection with their work.

## REPORTING VIOLATIONS OF TWENTY-EIGHT-HOUR LAW.

Whenever a violation of the twenty-eight-hour law is discovered an earnest effort should be made to obtain from the owner, agent, or custodian of the shipment a signed statement on I. D. Form 59A, and if such a statement can be secured from more than one person this should be done. For transmittal to this office such statement should be fastened to an I. D. Form 59, which should be duly filled out by the Bureau employee detailed to the work and signed by the inspector in charge.

It is evident that many violations are not reported by Bureau employees, as shippers frequently report them direct to this office. Inspectors in charge are therefore again urged to be diligent in this matter and to make every possible effort to report every violation of the law in shipments arriving at their respective stations.

## PENS FOR UNLOADING LIVE STOCK UNDER THE TWENTY-EIGHT-HOUR LAW.

The attention of Bureau employees is directed to the first two paragraphs of circular letter No. 181, of February 16, 1907, relative to the unloading of interstate shipments of live stock under the provisions of the twenty-eight-hour law. The law provides that the unloading must be done in a humane manner *into properly equipped pens for rest, water, and feeding.* It is reliably reported that live stock is unloaded into pens which are improperly equipped. In some instances they are very muddy, in others the supply of water is insufficient or the facilities are so arranged that the live stock have no opportunity of drinking; in other cases feed or water is so placed that many or all of certain classes of animals are unable to reach it; sufficient artificial light is not provided for unloading and reloading at night, and the pens are not hog and sheep proof, and consequently different classes of animals intermingle. It is desired that reports covering all improperly equipped pens used for the purpose above indicated be submitted to the Chief of the Bureau.

## INSTRUCTIONS CONCERNING MEAT INSPECTION.

### Marking Pickled and Dry Salt Meats.

[No. 216.]

April 29, 1907

*To inspectors in charge of meat inspection:*

In future, pickled and dry salt meats will not be marked with labels or rubber stamps. Unless these products bear the authorized marks of inspection it will be necessary to mark them with a hot branding iron.

A. D. Melvin, *Chief of Bureau.*

### Certificate for Exports to Argentina and Mexico.

[No. 217.]

APRIL 30, 1907.

*To inspectors in charge of meat inspection:*

This Department has been advised that certificates to be of any value in Argentina must be authenticated in an Argentine consulate. It is therefore necessary that all export certificates covering shipments of meat or meat food products destined for Argentina shall be viséed by a consul of that country.

A similar requirement is made by the authorities of Mexico, and all export certificates covering shipments of meat or meat food products destined for that country must be viséed by a Mexican consul.

You will so notify managers of official establishments at your station who desire to ship to the countries named.

A. D. MELVIN, *Chief of Bureau.*

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### Patrol Taggers on Night Duty.

[No. 218.]

MAY 1, 1907.

*To inspectors in charge of meat inspection:*

In future foremen of taggers will not relieve the patrol taggers on night duty. At stations where only one patrol tagger is assigned to night work he will take one night off each week, providing there is no regular work each night. The managers of establishments must not know which night of the week this employee will not report for duty, nor should the same night be chosen each week. At stations where two or more patrol taggers are assigned a sufficient number of employees should be detailed so that each tagger can be off duty one night a week and his duties shall be attended to by the other employees on the night force.

A. D. MELVIN, *Chief of Bureau.*

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### Embossed Trade Labels on Tin Containers.

[No. 219.]

MAY 1, 1907.

*To inspectors in charge of meat inspection:*

You are hereby instructed to advise all interested parties at your station that in lieu of the trade labels provided for in the regulations and instructions of the Department, it is permissible to emboss or stamp on the tin containers of meat or meat food products the essential features heretofore required for trade labels.

The following statements *shall* be shown:

True name of product.

Number of establishment.

"U. S. inspected and passed" (or an approved abbreviation of this legend).

The proposed statements to be embossed or stamped on containers, in accordance with the provisions of this letter, should first be submitted to this office for approval.

A. D. MELVIN, *Chief of Bureau.*

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## NOTES.

### Instructions for Dipping.

A pamphlet of "Instructions concerning the preparation and application of dips and reporting inspections and dippings of sheep and cattle for scabies" has been prepared for the use of employees engaged in that work, and copies are being sent to such employees.

### Meat Inspection Directory.

A directory, by numbers and by stations, of establishments at which meat inspection is conducted, with a list of addresses of inspectors and others, corrected up to May 1, has been issued and is being sent to inspectors in charge.

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### Reports.

The weekly reports on I. D. Form 19A, southern cattle shipped from points east of the Mississippi River received for slaughter or reshipment, are no longer required.

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### Cleaning and Disinfecting Cars.

Particular attention is directed to the importance of properly cleaning and disinfecting cars which have contained southern cattle and diseased live stock, in accordance with the regulations.

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## INFORMATION DESIRED CONCERNING BIRTHS AND SEX OF ANIMALS.

*To field inspectors:*

Inspectors stationed throughout the range country frequently have opportunities to make note of facts and figures on the breeding of animals which are of much value. The Animal Husbandman especially desires at this time information of a reliable character as to the number of animals of each sex born (including stillbirths and abortions, if possible) and number of young born to a given number of females, so that calculations can be made of the relative proportion of the sexes and the percentage of increase. If reliable information of this character can be obtained by inspectors without great inconvenience, it will be appreciated. The Animal Husbandman would also like information regarding theories of sex prevalent among ranchmen which are based on actual experience.

Communications of this nature should be mailed in separate envelopes and marked plainly, "Animal Husbandman."

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## INSTRUCTIONS FOR SENDING TISSUES TO THE PATHOLOGICAL LABORATORY FOR DIAGNOSIS.

The work of the Pathological Laboratory in assisting the inspectors to make proper diagnoses of unusual pathological lesions found at the abattoirs or in the field is sometimes greatly hampered by carelessness on the part of the inspectors in the preparation of the tissues prior to shipment.

When tissues are to be forwarded it is important for the inspector to consider whether a pathological or bacteriological examination will render the greatest service in making a diagnosis. In all infectious diseases the finding of the specific organism is the crucial test in establishing a diagnosis, while, on the other hand, in tumors, hepatic cirrhosis, nephritis, and similar conditions bacteriological examination is useless and the entire diagnosis rests on the microscopic examination of sections. The selection of the proper organs also requires careful consideration. For pathological work the parts showing the lesions are of course essential. In bacteriological cases organs should be taken which are least liable to become contaminated post-mortem, as the

spleen or heart. Together with these organs, from which cultures are taken, any other parts showing marked alterations should be forwarded, as in many cases a pathological examination assists in drawing conclusions from the bacteriological findings.

After securing the viscera with as little handling as possible they should be wrapped separately in cheese cloth which has been thoroughly saturated with and wrung out of a 1 to 1,000 bichloride of mercury solution, then folded in paraffined or oiled paper, labeled, and placed in a box for shipment. Unless the organs are very large they should be sent entire if cultures are to be made, as sections which necessitate the exposure of the parenchyma increase the liability to contamination with extraneous bacteria. Covering the tissues with a thick layer of powdered boric acid and wrapping in dry gauze is good, but has the disadvantage of being harder to remove at the laboratory. In ordinary cases where the tissues are taken immediately after death and the laboratory is near by, the above preparation preserves the tissues sufficiently well for pathological work. In case friable tissues and tumors are to be sectioned, or in very warm weather, and where the tissues will be several days in transit, it will be necessary to cut small cubes of tissue from one-half to 1 inch in diameter. The cubes should be so cut as to include a part of the healthy as well as the diseased tissue whenever possible. These tissues should then be immediately placed in 4 per cent formaldehyde (10 per cent formalin) solution, or 95 per cent alcohol, the volume of which should be twenty times as great as the volume of the tissues.

All express packages containing pathological specimens should have the name and address of the sender on the package, and should be addressed to the Bureau of Animal Industry, Pathological Laboratory, Washington, D. C. A letter should also be immediately sent with the specimens, fully describing the lesions, species, age, and sex of the animal, and all other obtainable information about the case. The writing of such a letter, although very important, is frequently overlooked.

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## INSTRUCTIONS FOR SENDING SAMPLES OF WATER FOR SANITARY EXAMINATION.

Inspectors who wish to submit samples of water for sanitary examination should observe the following directions:

Procure a half-gallon glass-stoppered bottle, clean it thoroughly, and sterilize the bottle and stopper in steam or boiling water. Before taking the sample for analysis the water should be allowed to run from the tap for at least fifteen minutes. In collecting the sample the bottle should be rinsed out with the water which is to be analyzed and then filled to within a short distance of the top, leaving a small air space to allow for expansion. The stopper should be tied in tightly with a clean white cloth, and the bottle shipped by express to the Bureau of Animal Industry, Biochemic Division, Washington, D. C.

In addition to the samples a full description of the source of the water, together with a drawing showing the point from which the water is taken, and the proximity of establishments and dwellings which might tend to contaminate it should be sent in. Accompanying this statement there should also be sent any information obtainable by the inspector concerning the presence of alkali or salt in the soil, as well as copies of analyses of known pure waters in the neighborhood. If the establishment is not using the same water as that used by the city in which the establishment is located, this fact should be stated, and a note should be made as to the availability of the city water to the establishment. Analyses of the city water, if such are obtainable, would also be of value.

It should be remembered that a water analysis deals with very minute quantities of material, and carelessness in collection will render the examination useless.

## PROMPT AND ACCURATE REPORTS REQUIRED.

The matter of properly and promptly reporting to the Washington office the daily work of station and field employees has always been of more importance than was usually thought, the impression having been quite prevalent that reporting was merely a matter of form that could be done in a haphazard way and at the most convenient time. Attempts have frequently been made to impress upon employees outside of Washington the urgent need of care in this matter, with the result that there has been a marked improvement, but the probable issuance of a monthly publication relating to the operations of the Bureau now makes absolutely necessary the following requirements:

1. *Complete reports* must be mailed to the Washington office not later than the second day following the date which they cover.

2. *All reports* sent to Washington must be prepared with *absolute accuracy*.

These requirements may seem drastic and difficult of attainment, but they offer the only possible means by which the Washington office can do what it will have to do, in order that the records for a given month may be closed and the figures published by the middle of the following month, as the short time in which the final work will have to be done will preclude the possibility of returning reports for correction and of undertaking through correspondence to reconcile discrepancies. It will therefore be necessary to insist upon the careful and efficient *preparation* and *checking* of reports at stations, so that they will be plainly legible and absolutely correct and complete.

An earnest effort will be made to simplify the reports as much as is compatible with good bookkeeping and good records, but the above-mentioned requirements—promptness and accuracy—will be insisted upon.

Each inspector or other officer in charge is requested to give this matter at once his personal and careful attention, and so to organize his clerical force that the work at the Washington office shall not be delayed a single day on account of the nonarrival or inaccuracy of reports.

## DISTRIBUTION OF PUBLICATIONS TO EMPLOYEES.

Hereafter publications of the Bureau intended for employees will be sent in bulk to the inspectors in charge at the different stations instead of to the individuals as heretofore, and no mailing list of individual employees will be kept. The editions of most publications are not large enough to supply all employees, and except in special cases only a sufficient number will be sent to supply the veterinarians. Inspectors in charge will therefore see that the veterinary inspectors are first supplied, and if more copies are received than are necessary for this purpose the excess may be distributed to other employees. When such other employees desire publications which will be of particular value or assistance to them in the discharge of their official duties, their requests will be complied with as far as practicable when made through the inspector in charge and bearing his indorsement.

## PUBLICATIONS IN APRIL.

Twenty-second Annual Report of the Bureau of Animal Industry for the year 1905. Pp. 364, pls. 23, figs. 22.

Circular 104. Welsh Black Cattle. By John Roberts. Pp. 29, pls. 5. (Reprinted from Twenty-second Annual Report.)

Circular 105. Baby Beef. By Ernest G. Ritzman. Pp. 34, figs. 6. (Reprinted from Twenty-second Annual Report.)

Circular 106. Publications of the Bureau of Animal Industry. Pp. 24.

Circular 107. Capons and Caponizing. By Rob R. Slocum. Pp. 10, figs. 7. (Reprinted from Twenty-second Annual Report.)

Circular 108. Trichinosis: A Danger in the Use of Raw Pork for Food. By B. H. Ransom. Pp. 6, figs. 5.

Separates from Twenty-second Annual Report:

Notes on the Cattle Tick and Texas Fever. By E. C. Schroeder. The Persistence of the Texas Fever Organism in the Blood of Southern Cattle. By E. C. Schroeder and W. E. Cotton. Pp. ii, 49–78.

Soft-cheese Studies in Europe. By Charles Thom. Pp. iv, 79–109, pls. 3.

Government Encouragement of Imported Breeds of Horses. By George M. Rommel. Pp. i, 147–159.

Poultry Management. By G. Arthur Bell. Pp. ii, 213–266, pls. 5, figs. 7.

The Production and Consumption of Meat, and the Prices, Movement, and Registration of Live Stock in the United States. Pp. ii, 277–297.

Order 142. Regulations for the inspection and quarantine of horses, cattle, sheep, and other ruminants, and swine imported into the United States.

Order 143. Regulations of the Secretary of Agriculture governing the inspection, disinfection, certification, treatment, handling, and method and manner of delivery and shipment of live stock which is the subject of interstate commerce.

Order 146. Rule 3, Revision 1.—To prevent the spread of scabies in sheep.

Amendment 10 to B. A. I. Order 137 (Regulations governing the meat inspection of the United States Department of Agriculture). Amendment to Regulations 50, 56, and 64, governing, respectively, the interstate and foreign transportation of meats and meat food products prepared prior to October 1, 1906, and of meats and meat food products of animals slaughtered by a farmer on the farm, and the interstate transportation of imported meats and meat food products.

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